

**Claims**

1. A process for the purification of chloride-containing waste waters which contain acids, bases and solvent residues, characterised in that the waste waters are worked up by acidification, subsequent extraction, alkalisation and stripping.
2. Process according to claim 1, characterised in that the waste waters originate from the interfacial polycondensation process for polycarbonate or diphenyl carbonate production.
3. Process according to claim 1, characterised in that carbonates are first removed by acidification and degassing.
4. Process according to claim 1, characterised in that the phenolic and other organic compounds are removed by extraction with solvent.
5. Process according to claim 1, characterised in that the acids are removed by extraction with bases in a reactive extraction.
6. Process according to claim 1, characterised in that the extraction is performed in a column.
7. Process according to claim 1, characterised in that the phenolic compounds are recovered by re-extraction of the organic extracting agent with aqueous-alkaline solution and subsequent neutralisation of the aqueous re-extract.
8. Process according to claim 7, characterised in that the re-extraction is performed in mixer-settlers.

9. Process according to claim 7, characterised in that the re-extractions are performed by the counter-current principle.
  10. Process according to claim 7, characterised in that the re-extraction is performed in two stages.
- 5